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DATE MAILED: 09/21/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/635,978	08/07/2003	Julie M. Tarara	0191.02	1613
25278 7:	590 09/21/2004		EXAMINER	
USDA-ARS-OFFICE OF TECHNOLOGY TRANSFER			DAVIS, OCTAVIA L	
	'ISORS OFFICE EGIONAL RESEARCH CE	ENTER	ART UNIT	PAPER NUMBER
800 BUCHANAN ST		2855		
ALBANY, CA	A 94710		DATE MAILED, 00/21/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			Alc				
	Application No.	Applicant(s)					
	10/635,978	TARARA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Octavia Davis	2855					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply	LO CET TO EVOIDE A MONTUL	C) EDOM					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	_•						
2a) This action is FINAL. 2b) This action is non-final.							
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-21 is/are pending in the application.	•						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-21</u> is/are rejected.							
7) Claim(s) is/are objected to.	r alastias raquirament						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The dath of declaration is objected to by the Ex	(
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been received in the contraction (PCT Rule 17.2(a)).	ion No ed in this National	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	, (PT∩-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate	0.450				
3) Note that information Disclosure Statement(s) (PTO-1449 or PTO/S8/08) Paper No(s)/Mail Date 11/20/02, 11/7/03,	5) Notice of Informal F 6) Other:	atent Application (PT	U-152)				

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• Art Unit: 2855

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jaharian in view of Brown.

Regarding claims 1, 2, 4, 5, 7, 10 - 12, 14 and 20, Jaharian discloses a method and apparatus for plant culture comprising means for applying tension to a support wire 50 and translating the tension of the support wire into the mass of plant structures 25 supported on the support wire (See Cols. 4 and 5, lines 13 - 15 and 12 - 26) but does not disclose measuring the tension in the wire. However, Brown discloses a wire tension meter comprising a tension measuring device 11 that measures the tension applied to a wire 17 (See Col. 1, lines 61 - 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Jarahian according to the teachings of Brown for the purpose of, continuously measuring the tension applied to a moving wire to accurately measure the tension over a wide range of relatively low forces (See Brown, Col. 1, lines 25 - 29).

Regarding claim 3, 8 and 21, in Jaharian, a tension adjuster 39 is connected to the wire 17 for increasing or decreasing the tension of the wire (See Col. 2, lines 11 - 20).

Regarding claims 6 and 13, in Jaharian, a crop is estimated at harvest from the tension of the support wire (See Col. 5, lines 43 - 51).

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Regarding claim 9, in Jaharian, the temperature of the wire is measured.

Regarding claim 19, Jarahian discloses all of the limitations of these claims except for a teaching that the posts, positioned between the end posts, include a pulley. However, in Brown, the wire 17 extends around a pulley 33 located at the end of a pivoting arm 35 mounted at the top of a column 37 (See Col. 2, lines 9 - 11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Jarahian according to the teachings of Brown for the purpose of, providing a measuring device which applies low inertia forces to a wire to prevent wire breakage due to high acceleration and deceleration of the wire during coiling and winding of the wire (See Brown, Col. 1, lines 32 - 35).

Allowable Subject Matter

3. Claims 15 - 18 are allowed.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Boogaart (4,381,838) teaches a system for supporting potted plants in a closed environment. Varela-Hernandez (4,436,284) discloses a tensed wire suspension system.

Gustafson et al (5,216,922) teach a slope monitoring device including a cable.

Weathers et al (6,021,601) teach a vine training anchor.

Clark (6,578,318) teaches a method and apparatus for raising vine plants.

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5. Any inquiry concerning this communication should be directed to Examiner Octavia Davis at telephone number (571) 272 - 2176. The examiner can normally be reached on Monday - Thursdays (9:00 - 5:00), Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz, can be reached on (571) 272 - 2180. The fax phone number for the organization where this application where this application or proceeding is assigned is (703) 872 – 9306.

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OD/2855

9/17/04

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800